



#4

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: LARRY GOLD et al.  
(ii) TITLE OF THE INVENTION: HIGH AFFINITY OLIGONUCLEOTIDE  
LIGANDS TO GROWTH  
FACTORS

(iii) NUMBER OF SEQUENCES: 304

(iv) CORRESPONDENCE ADDRESS:

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(E) COUNTRY: USA  
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(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
(B) COMPUTER: IBM compatible  
(C) OPERATING SYSTEM: MS-DOS  
(D) SOFTWARE: WordPerfect 6.1

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/\_\_\_\_\_  
(B) FILING DATE:  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: PCT/US96/08014  
(B) FILING DATE: 30-MAY-1996

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,423  
(B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,424  
(B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,594  
(B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,591  
(B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,725  
(B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,783  
(B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/618,693  
(B) FILING DATE: 20-MARCH-1996

(viii) ATTORNEY/AGENT INFORMATION:

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(2) INFORMATION FOR SEQUENCE ID NO: 1:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 117 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNAAGCUUCG CUCUAGAUCU 100  
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 2:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 93 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNNNAA GCUUCGCUCU AGAUCUCCCU UUAGUGAGGG UUA 93

(2) INFORMATION FOR SEQUENCE ID NO: 3:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 123 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCCGC CGAUACUGGG GUUCCUGGGG 50  
 CCCCUCCAUG GAGGAGGGGG GAGGGGGUGG UUCGAGAGAA GCUUCGCUCU 100  
 GAAUCUCCCU UUAGUGAGGG UUA 123

(2) INFORMATION FOR SEQUENCE ID NO: 4:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 95 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN AAGCTTCGCT CTAGA 95

(2) INFORMATION FOR SEQUENCE ID NO: 5:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
 GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNAAGC TTCGCTCTAG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 6:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 95 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
 GGGGGAGAAC GCGGATCCTG TCTCCACCGC CGATACTGGG GTTCCTGGGG 50  
 CCCCTCCATG GAGGAGGGGG TGGTTCGGAG AAAGCTTCGC TCTAG 95

(2) INFORMATION FOR SEQUENCE ID NO: 7:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
 TAATACGACT CACTATAGGG GGAGTCTGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 8:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
 TAATACGACT CACTATAGGG GGAGAACGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 9:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
 TAACCTCAC TAAAGGGAGA TCTAGAGCGA AGCTT 35

(2) INFORMATION FOR SEQUENCE ID NO: 10:  
 (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 50 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
 GATTTAGGTG ACACATAGA ATATGCATCA CTAGTAAGCT TTGCTCTAGA 50

(2) INFORMATION FOR SEQUENCE ID NO: 11:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 33 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
 GGATCCCGGA GCTCCCTATA GTGAGTCGTA TTA 33

(2) INFORMATION FOR SEQUENCE ID NO: 12:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 125 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 GGGGGAGAAC GCGGAUCCGA GCAUCCAG GCGCAUAGCU UCCGAGUAGA 50  
 CAGGAGGGAG GGGUGGAUGU GGCGUCUACU CGGUGUCGUG AAGCUUCGCU 100  
 CUAGAUCUCC CUUAGUGAG GGUUA 125

(2) INFORMATION FOR SEQUENCE ID NO: 13:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 125 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA 50  
 CAGGAGGGAG GGGUGGAUGU GGCGUCUACU CGGUGUCGUG AAGCUUCGCU 100  
 CUAGAUCUCC CUUAGUGAG GGUUA 125

(2) INFORMATION FOR SEQUENCE ID NO: 14:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 125 base pairs  
 (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGCGGGAG GGGUGGAUGU GGCGUCUACU CGGAGUCGUG AAGCUUCGCU	100
CUAGAUCUCC CUUUAGUGAG GGUUA	125

(2) INFORMATION FOR SEQUENCE ID NO: 15:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 116 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GGGGGAGAAC GCGGAUCCGG CAACCCAGG CGCAUAGCUU CCGAGUAGAC	50
AGGCGGGAGG GGUGGAUGUG GCGUCACGAG GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 16:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 123 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGGGGAGAAC GCGGATCCGC AAUCCAGGC GCAUAGCUUC CGAGUAGACA	50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GCGUCGUGAA GCUUCGCUCU	100
AGAUCUCCCU UAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 17:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 117 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGAGGGAG GGGUGGAUGU GGCGUCUCGA GGAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 18:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGGGGAGAAC GCGGAUCCGA GCAAGCCCUG GCAUAGCUUC CGAGUAGACA	50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GUGUCGUGAA GCUUCGCUCU	100
AGAUCUCCCU UUAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 19:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGGGGAGAAC GCGGAUCCGG CAAUCCCAGG CGCAUAGCUU CCGAGUAGAC	50
AGGAGGGAGG GGUGGAUGUG GUGUACGAGG AAGCUUCGCU CUAGAUCUCC	100
CUUUGAGUGAG GGUUA	115

(2) INFORMATION FOR SEQUENCE ID NO: 20:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGGGGAGAAC GCGGAUCCGA GCAAUCCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGAGGGAG GGGUGGAUGU GGUGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 21:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 98 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
GGGGGAGAAC GCGGAUCCAA GCUUCGAGUA GACAGGAGGG AGGGGUGGAU 50  
GUGGAGUCUC GAGAAGCUUC GCUCUAGAUC UCCCUUAGU GAGGGUUA 98

(2) INFORMATION FOR SEQUENCE ID NO: 22:

(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 113 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
GGGGGAGAAC GCGGAUCCGA GCAAUCCUAA GCAUAGCUUC GAGUAGACAG 50  
GAGGGAGGGG UGGAUGUGGC GUCUCGAGAA GCUUCGCUCU AGAUCUCCU 100  
UUAGUGAGGG UUA 113

(2) INFORMATION FOR SEQUENCE ID NO: 23:

(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 116 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:  
(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:  
(D) OTHER INFORMATION: All C's are 2'NH<sub>2</sub> cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:  
GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGGAGA 50  
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC 100  
CCUUUAGUGA GGGUUA 116

(2) INFORMATION FOR SEQUENCE ID NO: 24:

(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 116 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:  
(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:  
(D) OTHER INFORMATION: All C's are 2'NH<sub>2</sub> cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGUAGA 50  
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC 100  
CCUUUAGUGA GGGUUA 116

(2) INFORMATION FOR SEQUENCE ID NO: 25:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 42 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:  
 GCUUCCGAGU AGACAGGAGG GAGGGGUGGA UGUGGCGUCU AC 42

(2) INFORMATION FOR SEQUENCE ID NO: 26:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 43 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:  
 CUUCCGAGUA GACAGGAGGG AGGGGUGGAU GUGGCGUCUA CUC 43

(2) INFORMATION FOR SEQUENCE ID NO: 27:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 78 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:  
 GGGGGAGAAC GCGGAUCCGG CAACCCCAGG CGCAUAGCUU CCGAGUAGAC 50  
 AGGCGGGAGG GGUGGAUGUG GCGUCACG 78

(2) INFORMATION FOR SEQUENCE ID NO: 28:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 117 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:  
 GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUCAAC GGGGUGAGGU 50  
 GCAGCAGAAA GGGCCGGCAC CACAUGACGU AAAAGCUUCG CUCUAGAUCU 100  
 CCCUUUAGUG AGGGUUA 117



(2) INFORMATION FOR SEQUENCE ID NO: 29:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUGAGG UGCAGCAGAA	50
AGGGCCGGCA CCACAUGACG UAAAAGCUUC GCUCUAGAUC UCCCUUUAGU	100
GAGGGUUA	108

(2) INFORMATION FOR SEQUENCE ID NO: 30:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

GGGGGAGAAC GCGGAUCCGG UGGGAAAGUC GGAUUAUGUG UGUAGAUUUG	50
UGUGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 31:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'-NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

GGAGAACGCG GAUCCUGAGA AGGACGUCGG GGUCAACGGG GUGAGGUGCA	50
GCAGAAAGGG CCGGCACCA	69

(2) INFORMATION FOR SEQUENCE ID NO: 32:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 33:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGA	83

(2) INFORMATION FOR SEQUENCE ID NO: 34:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUUAUAAGAA CGCGGUCGCA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 35:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

- (D) OTHER INFORMATION: All U's are 2'NH<sub>2</sub> cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 36:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 81 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-F uracil  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'NH<sub>2</sub> cytosine  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA G 81

(2) INFORMATION FOR SEQUENCE ID NO: 37:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 117 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-F uracil  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'NH<sub>2</sub> cytosine  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCGCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCCU 100  
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 38:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 115 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-F uracil  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'NH<sub>2</sub> cytosine  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCCCUCCAUG CAGGAGGGGU GGUUCGGAGA AAGCUUCGCU CUAGAUCUCC 100  
 CUUUAGUGAG GGUUA 115

(2) INFORMATION FOR SEQUENCE ID NO: 39:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 92 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GGGGGAGAAC GCGGAUCCGG AAGUCUGGUC UUUGGGGAGU CCGCAUGGCC	50
CUGGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 40:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 111 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

GGGGGAGAAC GCGGAUCCAA GAAUGUUCGG CCGCACGAGG UGACAGUGGU	50
GCGGAUACGG ACCGAUUGGG UUUGCCAAGC UUCGCUCUAG AUCUCCCUUU	100
AGUGAGGGUU A	111

(2) INFORMATION FOR SEQUENCE ID NO: 41:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 117 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GGGGGAGAAC GCGGAUCCGG UCACCCGGGC AUAUAACAAU GCCGACACUG	50
GGGUACCUGG GACGGGUGGG ACUGGACGGA AGAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 42:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 119 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GGGGGAGAAC GCGGAUCCAU AACCGGCUGC AUGGGAGGGA CAUCCUGGGA	50
AAGGACGGGU CGAGAUGACC UGAGCAGUUC CGGCAAGCUU CGCUCUAGAU	100
CUCCCUUUAG UGAGGGUUA	119

(2) INFORMATION FOR SEQUENCE ID NO: 43:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:  
TCGGGCGAGT CGTCTGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNCCGC ATCGTCCTCC C 71

(2) INFORMATION FOR SEQUENCE ID NO: 44:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 32 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:  
TAATACGACT CACTATAGGG AGGACGATGC GG 32

(2) INFORMATION FOR SEQUENCE ID NO: 45:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 16 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:  
TCGGGCGAGT CGTCTG 16

(2) INFORMATION FOR SEQUENCE ID NO: 46:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:  
GGGAGGACGA TGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 47:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 15 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:  
GGGAGGACGA TGCGG 15

(2) INFORMATION FOR SEQUENCE ID NO: 48:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: N at positions 1-3 is biotin  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:  
NNNTCGGGCG AGTCGTCTG 19

(2) INFORMATION FOR SEQUENCE ID NO: 49:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 87 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:  
GCCTGTTGTG AGCCTCCTGT CGAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNNNNN NNNNTTGAGC GTTTATTCTT GTCTCCC 87

(2) INFORMATION FOR SEQUENCE ID NO: 50:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 40 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
TAATACGACT CACTATAGGG AGACAAGAAT AAACGCTCAA 40

(2) INFORMATION FOR SEQUENCE ID NO: 51:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:  
GCCTGTTGTG AGCCTCCTGT CGAA 24

(2) INFORMATION FOR SEQUENCE ID NO: 52:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 87 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:  
GGGAGACAAG AATAACGCT CAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNNNNN NNNTTGACA GGAGGCTCAC AACAGGC 87

(2) INFORMATION FOR SEQUENCE ID NO: 53:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 23 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:  
 GGGAGACAAG AATAACGCT CAA 23

(2) INFORMATION FOR SEQUENCE ID NO: 54:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 27 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: N at positions 1-3 is biotin  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:  
 NNNGCCTGTT GTGAGCCTCC TGTCGAA 27

(2) INFORMATION FOR SEQUENCE ID NO: 55:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:  
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 56:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:  
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTGCT ACTTACTTGC 50  
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 57:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:  
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTACT ACTTACTTAC 50  
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 58:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTATACTA CTTACTTACG  
TCTTCAGACG ACTCGCCCCG A

50  
70

(2) INFORMATION FOR SEQUENCE ID NO: 59:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC  
ATCTTCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 60:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC  
GTCTTCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 61:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGTT ACTTACTTGC  
GTCTTCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 62:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:



GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGCT TCTTACTTGC  
GTCTTCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 63:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 73 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGTA CTTTTTCCTG  
CGTCTTCCAG ACGACTCGCC CGA

50  
73

(2) INFORMATION FOR SEQUENCE ID NO: 64:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTCG TTTTTCTTTG  
CGGCTTCAGA CGACTCGCCC GA

50  
72

(2) INFORMATION FOR SEQUENCE ID NO: 65:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

GGGAGGACGA TGCGGCCAGG GGGGGTGTGG GGGTGGTGTA CTTTTTCTTG  
TCTTCCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 66:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTTG GTATGTTGCG  
TCCGTCAGAC GACTCGCCCCG A

50  
71

(2) INFORMATION FOR SEQUENCE ID NO: 67:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:  
GGGAGGACGA TGCGGCCGGG GTGGGTATGG GGGTAATACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 68 :  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:  
GGGAGGACGA TGCGGCCGGG GGTGGGTAGG GGGGTAGTGC TACTACTTA 50  
CGTCTTCAGAC GACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 69:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:  
GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGGTAGTACT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 70:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:  
GGGAGGACGA TGCGGCCAGG GTGGGTATGG GGGTAGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 71:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:  
GGGAGGACGA TGCGGCCGGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 72:  
(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:  
 GGGAGGACGA TCGGCCTGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
 GTCTTCAGACG ACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 73:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:  
 GGGAGGACGA TCGGCCACG GGTGGGTGTG GGGTAGTGTG TCTCACTTTA 50  
 CATCACCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 74:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:  
 GGGAGGACGA TCGGCCCGG GGTGGGTGTG GGGTAGTGTA TTATATTTAC 50  
 AGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 75:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:  
 GGGAGGACGA TCGGCCCAGG GTCGGTGTGG GGTGGTGTAC TTTTTCCTGT 50  
 CCTTCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 76:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:  
 GGGAGGACGA TCGGCCCAGG GTCGGTATGG GGTAGTGTAC TTTTAAATGA 50  
 TCTTCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 77:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

GGGAGGACGA TCGGCCCCGG GGGAGAGCGG TGGGTAGTGT TCTATAGTAT 50  
TCGTGTCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 78:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

GGGAGGACGA TCGGCCCAGG GGGGGTATGT TTTAATACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCC A 71

(2) INFORMATION FOR SEQUENCE ID NO: 79:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

GGGAGGACGA TCGGCCCAGG GAGGGTATGG GGGTGGTGT TCTAGTTTGT 50  
CGGCGTCAGA CGACTCGCCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 80:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

GGGAGGACGA TCGGCCCAGG GTGGGCATGG GGGTGGTGTG GATTAATTCT 50  
TCGTCCCAGA CGACTCGCCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 81:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:  
 GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGTGGTGT TTATTACTC 50  
 GTCGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 82:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

- (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:  
 GGGAGGACGA TGCGGGGGGC GGCTTGAAG AGGTTGCCGG TTGGAGTATT 50  
 CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 83:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 67 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

- (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:  
 GGGAGGACGA TGCGGCCAGG TGTGGGTGG TTTGGGTTTT CTTTCGTCGC 50  
 CCAGACGACT CGCCCGA 67

(2) INFORMATION FOR SEQUENCE ID NO: 84:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

- (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:  
 GGGAGGACGA TGCGGCCAGG GTGGGTATGG GGGTTTAATT AATTCTTCGT 50  
 CCCACAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 85:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

- (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:  
 GGGAGGACGA TGCGGGGGGC GGCTTGAAG AGGTTGCCGG TTGGAGTATT 50  
 CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 86:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:  
 GGGAGGACGA TGCGGCCCGG GGTGGGTGTG GGGTGGTGTG AATTAATTCT 50  
 TCGTCCCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 87:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:  
 GGGAGGACGA TGCGGCCCGG GGTGGGTGTG GGGTGGTGTG TTATATTTGC 50  
 GGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 88:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:  
 GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GTGGTGTACT TTTTCCTGTC 50  
 CTTCCAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 89:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:  
 GGGAGGACGA TGCGGGGGGC GGCTTGGAAG AGGTTGCCCG TTGGAGTATT 50  
 CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 90:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:  
 ATCCGCCTGA TTAGCGATAC TNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNNNNN NACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 91:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 28 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: N at positions 1-3 is biotin  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:  
 NNNCCCCTGC AGGTGATTTT GCTCAAGT

28

(2) INFORMATION FOR SEQ ID NO: 92:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 49 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:  
 CCGAAGCTTA ATACGACTCA CTATAGGGAT CCGCCTGATT AGCGATACT

49

(2) INFORMATION FOR SEQ ID NO: 93:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 84 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:  
 ATCCGCTGA TTAGCGATAC TAGGCTTGAC AAAGGGCACC ATGGCTTAGT  
 GGTCCCTAGTA CTTGAGCAA AATCACCTGCA GGGG

50

84

(2) INFORMATION FOR SEQ ID NO: 94:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 85 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:  
 ATCCGCTGA TTAGCGATAC TCAGGGCACT GCAAGCAATT GTGGTCCCAA  
 TGGGCTGAGT ACTTGAGCAA AATCACCTGC AGGGG

50

85

(2) INFORMATION FOR SEQ ID NO: 95:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:  
 ATCCGCTGA TTAGCGATAC TCCAGGCAGT CATGGTCATT GTTTACAGTC

50

GTGGAGTAGG TACTTGAGCA AAATCACCTG CAGGGG

86

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATCCGCCTGA TTAGCGATAC TAGGTGATCC CTGCAAAGGC AGGATAACGT 50

CCTGAGCATC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 97:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATCCGCCTGA TTAGCGATAC TATGTGATCC CTGCAGAGGG AGGANACGTC 50

TGAGCATCAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 98:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATCCGCCTGA TTAGCGATAC TCACGTGATC CCATAAGGGC TGCGCAAAAT 50

AGCAGAGCAT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATCCGCCTGA TTAGCGATAC TGGTGGACTA GAGGGCAGCA AACGATCCTT 50

GGTTAGCGTC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 100:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear



(ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:  
 ATCCGCCTGA TTAGCGATAC TGGTGCACG AGGCTTACAC AAACGTACAC 50  
 GTTCCCCCGC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 101:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:  
 ATCCGCCTGA TTAGCGATAC TTGTCCGAGC AGGGGCGTAC GAAAACTTTA 50  
 CAGTTCCCCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 102:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:  
 ATCCGCCTGA TTAGCGATAC TAGTGGAACA GGGCACGGAG AGTCAAACCTT 50  
 TGGTTTCCCC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 103:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:  
 ATCCGCCTGA TTAGCGATAC TGTGGGTAGG GATCGGTGGA TGCCTCGTCA 50  
 CTTCTAGTCC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 104:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:  
 ATCCGCCTGA TTAGCGATAC TGGGCGCCCT AAACAAAGGG TGGTCACTTC 50  
 TAGTCCCAGG AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 105:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:  
 ATCCGCCTGA TTAGCGATAC TTCCGGGCTC GGGATTCGTG GTCACCTTTCA 50  
 GTCCCGGATA TAACTTGAGC AAAATCACCT GCAGGGG 87

(2) INFORMATION FOR SEQ ID NO: 106:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 84 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:  
 ATCCGCCTGA TTAGCGATAC TATGGGAGGG CGCGTTCTTC GTGGTTACTT 50  
 TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG 84

(2) INFORMATION FOR SEQ ID NO: 107:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 84 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:  
 ATCCGCCTGA TTAGCGATAC TACGGGAGGG CACGTTCTTC GTGGTTACTT 50  
 TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG 84

(2) INFORMATION FOR SEQ ID NO: 108:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:  
 ATCCGCCTGA TTAGCGATAC TGCTCGTAGG GGGCGATTCT TTCGCCGTTA 50  
 CTTCCAGTCC TACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 109:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:  
 ATCCGCCTGA TTAGCGATAC TGAGGCATGT TAACATGAGC ATCGTCTCAC 50  
 GATCCTCAGC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 110:  
 (i) SEQUENCE CHARACTERIZATION:  
   (A) LENGTH: 86 base pairs  
   (B) TYPE: nucleic acid  
   (C) STRANDEDNESS: single  
   (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:  
 ATCCGCCTGA TTAGCGATAC TCCACAGGCT ACGGCACGTA GAGCATCACC 50  
 ATGATCCTGT GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 111:  
 (i) SEQUENCE CHARACTERIZATION:  
   (A) LENGTH: 86 base pairs  
   (B) TYPE: nucleic acid  
   (C) STRANDEDNESS: single  
   (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:  
 ATCCGCCTGA TTAGCGATAC TCGGGCATG GCACATGAGC ATCTCTGATC 50  
 CCGCAATCCT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 112:  
 (i) SEQUENCE CHARACTERIZATION:  
   (A) LENGTH: 86 base pairs  
   (B) TYPE: nucleic acid  
   (C) STRANDEDNESS: single  
   (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:  
 ATCCGCCTGA TTAGCGATAC TACCGGGCTA CTTCTAGAG CATCTCTGAT 50  
 CCCGGTGCTC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 113:  
 (i) SEQUENCE CHARACTERIZATION:  
   (A) LENGTH: 86 base pairs  
   (B) TYPE: nucleic acid  
   (C) STRANDEDNESS: single  
   (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:  
 ATCCGCCTGA TTAGCGATAC TAAAGGGCGA ACGTAGGTCG AGGCATCCAT 50  
 TGGATCCCTT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 114:  
 (i) SEQUENCE CHARACTERIZATION:  
   (A) LENGTH: 86 base pairs  
   (B) TYPE: nucleic acid  
   (C) STRANDEDNESS: single  
   (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATCCGCCTGA TTAGCGATAC TACGGGCTCT GTCAGTGTGG CACTAGCAAT 50  
AGTCCCGTCG CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 115:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

ATCCGCCTGA TTAGCGATAC TGGGCAGACC TTCTGGACGA GCATCACCTA 50  
TGTGATCCCG ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 116:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

ATCCGCCTGA TTAGCGATAC TAGAGGGGAA GTAGGCTGCC TGA CTGAGAGA 50  
GAGTCCTCCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

ATCCGCCTGA TTAGCGATAC TAGGGGTGCG AAACACATAA TCCTCGCGGA 50  
TTCCCATCGC TACTTGAGCA AAATCACCTG CAGGGG 85

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

ATCCGCCTGA TTAGCGATAC TGGGGGGGCA ATGGCGGTAC CTCTGGTCCC 50  
CTAAATACAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:  
ATCCGCCTGA TTAGCGATAC TGC GGCTCAA AGTCCTGCTA CCCGCAGCAC 50  
ATCTGTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 120:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:  
ATCCGCCTGA TTAGCGATAC TTTGGGCGTG AATGTCCACG GGTACCTCCG 50  
GTCCCAAAGA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 121:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 85 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:  
ATCCGCCTGA TTAGCGATAC TTCCGCGCAA GTCCCTGGTA AAGGGCAGCC 50  
CTAACTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 122:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:  
ATCCGCCTGA TTAGCGATAC TCAAGTTCCC CACAAGACTG GGGCTGTTCA 50  
AACCCTAGT AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 123:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:  
ATCCGCCTGA TTAGCGATAC TCAAGTAGGG CGCGACACAC GTCCGGGCAC 50  
CTAAGGTCCC AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 124:  
(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 86 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:  
 ATCCGCCTGA TTAGCGATAC TAAAGTCGTG CAGGGTCCCC TGGAAGCATC 50  
 TCCGATCCCA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 125:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:  
 GGGAGACAAG AAUAACGCUC AANNNNNNNNN NNNNNNNNNN 50  
 NNNNNNNNNN NNNNNNNNNN NNUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 126:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 39 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:  
 TAATACGACT CACTATAGGG AGACAAGAAT AACGCTCAA 39

(2) INFORMATION FOR SEQ ID NO: 127:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 24 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:  
 GCCTGTTGTG AGCCTCCTGT CGAA 24

(2) INFORMATION FOR SEQ ID NO: 128:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 93 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:  
 GGGAGACAAG AAUAACGCUC AACGGUGGCA UUUCUUCACU UCCUUCUCGC 50  
 UUUCUCGCGU UGGGCNCGAU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 129:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 91 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

GGGAGACAAG AAUAACGCUC AACCAACCUU CUGUCGGCGU UGCUUUUUGG	50
ACGGCACUCA GGCUCCAUUC GACAGGAGGC UCACAACAGG C	91

(2) INFORMATION FOR SEQ ID NO:130:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130::

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCCUUA	50
ACCAGGGCUG GGACCGAGGC CUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 131:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

GGGAGACAAG AAUAACGCUC AACUGAGUAG GGGAGGAAGU UGAAUCAGUU	50
GUGGCGCCUC UCAUUCGCUU CGACAGGAGG CUCACAACAG GC	92

(2) INFORMATION FOR SEQ ID NO: 132:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

GGGAGACAAG AAUAACGCUC AACAGCACUU UCGCUUUUCA UCAUUUUUUC	50
UUUCCACUGU UGGGCGCGGA AUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 133:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

GGGAGACAAG AAUAACGCUC AAUCAGUGCU GGCGUCAUGU CUCGAUGGGG	50
AUUUUUCUUC AGCACUUUGC CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

GGGAGACAAG AAUAACGCUC AAUCUACUUU CCAUUUCUCU UUUCUUCUCA	50
CGAGCGGGU UCCAGUGAAC CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

GGGAGACAAG AAUAACGCUC AACGAUAGUG ACUACGAUGA CGAAGGCCGC	50
GGGUUGGAUG CCUGCAUUGA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 136:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

GGGAGACAAG AAUAACGCUC AAGUCGAUAC UGGCGACUUG CUCCAUUGGC	50
CGAUUAACGA UUCGGUCAGU UCGACAGGAG GCUCACAACA GGC	93



(2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 95 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:
 

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU	50
UUCGAUCGAC UUUCCUUUCC AUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 138:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:
 

GGGAGACAAG AAUAACGCUC AAUUCGCGG UCCGAUUAU UCCUGUGCUC	50
GGAAUUCGGU AGCCAUGUG CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 139:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:
 

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG	50
UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 140:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:
 

GGGAGACAAG AAUAACGCUC AAGCGAAACU GGCGACUUGC UCCAUGGCC	50
GAUAUAACGA UUCGGUUAU UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 141:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 95 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:
 

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUCG CAAGGGAUGG	50
UUGGAUAGGC UCUACGCUCA AUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:
 

GGGAGACAAG AAUAACGCUC AACGAGAAGU GACUACGAUG ACGAAGGCCG	50
CGGGUUGAAU CCCUCAUUGA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 143:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 95 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:
 

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACCUGACG CCUGAUGUGA	50
CUGUGCUUGC ACCCGAUUCU GUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:
 

GGGAGACAAG AAUAACGCUC AAGUGAUUCU CAUUCUCAAU GCUUUCUCAC	50
AACUUUUUCC ACUUCAGCGU GAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACUCGACG CCUGAUGUGA	50
CUGUGCUUGC ACCCGAUUCU UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCUUUG	50
ACCAUGAGCU GGGACCGAGG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

GGGAGACAAG AAUAACGCUC AANGACNGU GGACCUGACU AAUCGACUGA	50
UCAAGAUAUC CGCCAGAUUG GGUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

GGGAGACAAG AAUAACGCUC AACACUGCGA CUUGCAGAAG CCUUGUGUGG	50
CGGUACCCCC UUUGGCCUCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:
 

GGGAGACAAG AAUAACGCUC AAGGUGGCAU UUCUUAUUU UCCUUCUCGC	50
UUUCUCCGCC GUUGGGCGCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 150:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:
 

GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGAAAG UUGAAUCAGU	50
UGUGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 151:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:
 

GGGAGACAAG AAUAACGCUC AAGUCGAAAC UGGCGACUUG CUCCAUUGGC	50
CGAUUAUACG AUUCGGUUA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 152:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:
 

GGGAGACAAG AAUAACGCUC AAGCGAUACU GGCGACUUGC UCCAUUGGCC	50
GAUAUAACGA UUCGGCUCAG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 153:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:
 

GGGAGACAAG AAUAACGCUC AAACGUGGGG CACAGGACCG AGAGUCCUC	50
CGGCAAUAGC CGCUACCCCA CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 154:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 98 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:
 

GGGAGACAAG AAUAACGCUC AACACAGCCU NANAGGGGGG AAGUUGAAUC	50
AGUUGUGGCG CUCUACUCAU UCGCUUCGAC AGGAGGCUCA CAACAGGC	98

(2) INFORMATION FOR SEQ ID NO: 155:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:
 

GGGAGACAAG AAUAACGCUC AAANGGGNUA UGGUGACUUG CUCCAUUGGC	50
CGAUUAACG AUUCGGUCAG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 156:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:
 

GGGAGACAAG AAUAACGCUC AACCUGCGUA GGGNGGGAAG UUGAAUCAGU	50
UGUGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 157:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:
 

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG	50
UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 158:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 97 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:
 

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU	50
UUCGAUUCGC UUUCCNUAUU CCAUUCGACA GGAGGCUCAC AACAGGC	97

(2) INFORMATION FOR SEQ ID NO: 159:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 93 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:
 

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGACGG	50
UNNAUAGGCU CUACGCUCAU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 160:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 93 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:
 

GGGAGACAAG AAUAACGCUC AAUCGGUGUG GCUCAGAAAC UGACACGCGU	50
GAGCUUCGCA CACAUCUGCU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

GGGAGACAAG AAUAACGCUC AAUAUCGCUU UUCAUCAAUU CCACUUUUUC 50  
ACUCUNUAAC UUGGGCGUGC AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50  
UUCGAUCCUG CAUCCUUUUU CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 163:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

GGGAGACAAG AAUAACGCUC AAUCGUCGG UUGUGUGCCG GCAGCUUUGU 50  
CCAGCGUUGG GCCGAGGCCU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

GGGAGACAAG AAUAACGCUC AAAGUACCCA UCUCAUUUU UCCUUUCCUU 50  
UCUUAAGGC ACAUUGAGGG UUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 165:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 97 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:
 

GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGGAAG UUGAACCAGU	50
UGUGGCNGCC UACUCAUCN CCAUUCGACA GGAGGCUCAC AACAGGC	97

(2) INFORMATION FOR SEQ ID NO: 166:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:
 

GGGAGACAAG AAUAACGCUC AACCNCCUN CUGUCGGCGC UUGUCUUUUU	50
GGACGGGCAA CCCAGGGCUC UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 167:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:
 

GGGAGACAAG AAUAACGCUC AACCAACUN CUGUCGGCGC UUGUCUUUUU	50
GGACGAGCAA CUCAAGGCUC GUUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 168:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 93 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:
 

GGGAGACAAG AAUAACGCUC AACCAGCGCA GAUCCCGGGC UGAAGUGACU	50
GCCGGCAACG GCCGCUCCAU UCGACAGGAG GCUCACAACA GGC	93



(2) INFORMATION FOR SEQ ID NO: 169:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:
 

GGGAGACAAG AAUAACGCUC AAUCCCCGUA ACAACUUUUC AUUUUCACUU	50
UUCAUCCAAC CAGUGAGCAG CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 170:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:
 

GGGAGACAAG AAUAACGCUC AAUAUCGCUU UCAUCAAAUU CCACUCCUUC	50
ACUUCUUUAA CUUGGGCGUG CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 171:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: N at positions 1 and 23  
base pair to each other and can be 1-4  
base pairs long.
- (ix) FEATURE:
  - (D) OTHER INFORMATION: N at positions 5 and 10  
is any base pair.
- (ix) FEATURE:
  - (D) OTHER INFORMATION: N at positions 6 and 9  
is any base pair.
- (ix) FEATURE:
  - (D) OTHER INFORMATION: N at positions 7 and 8 is  
any base pair.
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:
 

NGGCNNNNNN GRKYAYRRT CCN	23
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(2) INFORMATION FOR SEQ ID NO: 172:

- (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 38 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 38 is an  
 inverted orientation T (3'-3' linked)  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:  
 TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCGT

38

(2) INFORMATION FOR SEQ ID NO: 173:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 40 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 40 is an  
 inverted orientation T (3'-3' linked)  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:  
 CACAGGCTAC GGCACGTAGA GCATCACCAT GATCCTGTGT

40

(2) INFORMATION FOR SEQ ID NO: 174:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 45 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 45 is an  
 inverted orientation T (3'-3' linked)  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:  
 TACTCAGGGC ACTGCAAGCA ATTGTGGTCC CAATGGGCTG AGTAT

45

(2) INFORMATION FOR SEQ ID NO: 175:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 36 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: DNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: C at positions 8, 11,  
 25 and 26 is 2'-O-methyl-2'-deoxycytidine.  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: G at positions 9, 10,  
 17, 19 and 35 is 2'-O-methyl-2'-deoxyguanosine.  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: A at positions 12, 24

and 27 is 2'-O-methyl-2'-deoxyadenosine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: U at position 34 is 2'-O-methyl-2'-deoxyuridine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: U at positions 6 and 22 is 2'-fluoro-2'-deoxyuridine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: C at positions 23, 32 and 33 is 2'-fluoro-2'-deoxycytidine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 36 is an inverted orientation T (3'-3' linked).

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:  
 CAGGCUACGG CACGTAGAGC AUCACCATGA TCCUGT

36

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 32 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:  
 (D) OTHER INFORMATION: C at position 8 is 2'-O-methyl-2'-deoxycytidine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: G at positions 9, 17 and 31 is 2'-O-methyl-2'-deoxyguanosine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: A at position 22 is 2'-O-methyl-2'-deoxyadenine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: U at position 30 is 2'-O-methyl-2'-deoxyuridine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: U at positions 6 and 20 is 2'-fluoro-2'-deoxyuridine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: C at positions 21, 28 and 29 is 2'-fluoro-2'-deoxycytidine.

(ix) FEATURE:  
 (D) OTHER INFORMATION: N at positions 10 and 23 is pentaethylene glycol phosphoramidite spacer.

(ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 32 is an inverted orientation T (3'-3' linked)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:  
 CAGGCUACGN CGTAGAGCAU CANTGATCCU GT

32

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 39 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
 (D) OTHER INFORMATION: Nucleotide 39 is an  
 inverted orientation T (3'-3' linked)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:  
CAGTCCGTGG TAGGGCAGGT TGGGGTGACT TCGTGAAT 39

(2) INFORMATION FOR SEQ ID NO: 178:  
(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
 (D) OTHER INFORMATION: T at positions 13, 14,  
 16 and 17 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:  
TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCCG 37

(2) INFORMATION FOR SEQ ID NO: 179:  
(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
 (D) OTHER INFORMATION: T at position 20 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:  
TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCCG 37

(2) INFORMATION FOR SEQ ID NO: 180:  
(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
 (D) OTHER INFORMATION: T at position 23 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:  
TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCCG 37

(2) INFORMATION FOR SEQ ID NO: 181:  
(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 24 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:  
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 182:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 27 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:  
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 183:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at positions 28-30 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:  
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 184:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 33 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:  
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 185:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 7 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: Peptide

(ix) FEATURE:

(D) OTHER INFORMATION: Xaa at position 5 is a modified amino acid  
that could not be identified.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

Lys Lys Pro Ile Xaa Lys Lys

5

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GGGAGGACGA UGCGGNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
NNNNNCAGAC GACUCGCCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 32 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

TAATACGACT CACTATAGGG AGGACGATGC GG

32

(2) INFORMATION FOR SEQ ID NO: 188:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 16 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

TCGGGCGAGT CGTCTG

16

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

GGGAGGACGA UGCGGGAAGG GACGAUAAAG AGGAAUCGAA CAACAAGUGG  
CUGGCCAGAC GACUCGCCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:  
 GGGAGGACGA UGCGGGCGGG AAGGUCCGAA GACCGGCGAA AGGAACGAGA 50  
 UUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:191:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:  
 GGGAGGACGA UGCGGGUGGU GAAGAGGUAC CGGAAUUGCU AAAGAUACCA 50  
 GGCCCAGACG ACUCGCCCCG 71

(2) INFORMATION FOR SEQ ID NO: 192:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:  
 GGGAGGACGA UGCGGGCAGG GAGCAAUGAA CUCAAGUCAA GCCGGUGCAC 50  
 GUGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:193:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:  
 GGGAGGACGA UGCGGUAGCU GCUGUCAUGC AAGACACUAG AAGAUUAAGA 50  
 UGGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:194:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:  
 GGGAGGACGA UGCGGGGGGCC GGAUUUGAAC CGACGACUUC GGGUUAUGAG 50  
 CCCGACGUCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 195:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:  
 GGGAGGACGA UGCGGUCCAG GGAUUGAAGU GUCGGGGUAG GAACAUAAAG 50  
 GCGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 196:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:  
 GGGAGGACGA UGCGGAAGUU CUAACAAGUU AGUGGAAGGU UCCACUUGAA 50  
 UGUACAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 197:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 44 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:  
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 198:  
 (i) SEQUENCE CHARACTERIZATION:



(A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:  
 GGGAGGACGA UGCGGGUGGG AAGAUGAGCC GGUCGGCAGU AAUGUGACAC 50  
 UGCGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 199:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:  
 GGGAGGACGA UGCGGGAGGG AAUGAGGAAA CAACUAGCAG AUAACCGAGC 50  
 UGGCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 200:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 44 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:  
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 201:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:  
 GGGAGGACGA UGCGGUUGCU CUACAAUGAC GCGGUGACUC CGCAGUUCUU 50  
 GGACACAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 202:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:  
 GGGAGGACGA UGCGGGAGGG GAGAAGAAUG CAGGAAACAG CGAAAUGCGU 50  
 GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 203:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:  
 GGGAGGACGA UGCGGGCGGG AAGAGCUAAU GGAAGUGGAA UCAGUCACAG 50  
 UGCGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 204:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 57 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:  
 GGGAGGACGA UGCGGGCUUA GGGAAAUGGU UCUGAGGUGG UCAGACGACU 50  
 CGCCCGA 57

(2) INFORMATION FOR SEQ ID NO: 205:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:  
 GGGAGGACGA UGCGGGAAGG GAACAGGAUA AGACAAGUCG AACAAAGCCG 50  
 AGGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 206:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:  
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 207:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:  
 GGGAGGACGA UGCGGGGAGA CGUAGACGGG AACAUAGAAC GAACAUCAAC 50  
 GCGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 208:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 69 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:  
 GGGAGGACGA UGCGGGAAGU GGAUAGAACA GUCAGAAAUG UAAGCGUGAG 50  
 GUGCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 209:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:  
 GGGAGGACGA UGCGGGAAGG GUAGGAAGGU CAAGAGGAAA CAGCGCUUCG 50  
 GGGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 210:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:  
 GGGAGGACGA UGCGGGGCAA AGGAAGUUGG AAUCGGGACU AAGUAGUGUG 50  
 UGGCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 211:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:  
 GGGAGGACGA UGCGGAGAAC CAACAGAGCC CCCUGGUGGU GGGGGAAGGA 50  
 UUCUCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 212:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:  
 GGGAGGACGA UGCGGACACA CAAGUGAAGG UCAGACGCGA AUUACGUGGG 50  
 UGGGCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 213:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 82 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:  
 GGGAGGACGA UGCGGUCGUG GGGUGGGUGG GGGCAGCGUU GGAAUAAGUA 50  
 ACUGGUAACG GCUGGCCAGA CGACUCGCCC GA 82

(2) INFORMATION FOR SEQ ID NO: 214:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:  
 GGGAGGACGA UGCGGGGUGG GUGGUUACCU GUAUUUAUUAU UGAUUCUGGC 50  
 UUUAGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 215:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 53 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:  
 GGGAGGACGA UGCGGCCCCU UAGCUCAGUG GUUAGAGCAG ACGACUCGCC 50  
 CGA 53

(2) INFORMATION FOR SEQ ID NO: 216:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:  
 GGGAGGACGA UGCGGUAACG UGGAUAGGG UUAACAGCU GGAAUAACG 50  
 UAGGUGGCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 217:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:  
 GGGAGGACGA UGCGGGUAGG GAGUAGGACA GACAUACAG UGCAACCAUC 50  
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 218:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 73 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:  
 GGGAGGACGA UGCGGAAACG GCGUGGCAAA AGUGAGGGGG UAGGAUGUAC 50  
 CAUGGGUCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:  
 GGGAGGACGA UGCGGGAGGG GAAAAUGAGA CCGACAGAUU GACGGAAGUA 50  
 CUGGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:  
 GGGAGGACGA UGCGGGCAUU CGUCAAUACC UGUUUUUUU CCUUUUCUAG 50  
 CGGCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:  
 GGGAGGACGA UGCGGAUCGU AAUCGCCACU ACUACUUUCC GAACCCGCAC 50  
 GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:  
 GGGAGGACGA UGCGGCGUCC CGAGUCACGC UGUCCUGAUA ACCUUCUCUG 50  
 UGCCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO:223:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:  
 GGGAGGACGA UGCGGGAUCC UUUGUGGGCU CUUGUUGACC CCCUCGUUGU 50  
 CCCCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 224:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:  
 GGGAGGACGA UGCGGCGGGU ACUCUUGCC AGCUCCUCCA AGCGCGACCU 50  
 GUGCCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 225:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:  
 GGGAGGACGA UGCGGUUUCG AAUAGGGCCA UUUCUCACUA GCUAUCCUAC 50  
 CCUGCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 226:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
 GGGAGGACCA UGCGGAUAAU GGCUAGAACU AGCUCGCAUC UUGGUGUCCG 50  
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 227:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:  
 GGGAGGACGA UGCGGGACCA GAUGGCGGAU UUUUCAGCAA UCCUCCCCCG 50  
 CUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 228:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:  
 GGGAGGACGA UGCGGUGAUG GCGACCAGUC AAACCGGUGC UUUUACUCCC 50  
 CCGCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 229:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:  
 GGGAGGACGA UGCGGGAAUU AACAGGGCCA GAAUUCUCAU CUNNCUCCCC 50  
 GUGACCCAGA CGACUCGCCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 230:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid



(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:  
 GGGAGGACGA UGCGGCACCU UAGACCUGUC CUCCAAGCGU GAGUUGCUGU 50  
 GGCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 231:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:  
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUCU 50  
 GGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 232:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:  
 GGGAGGACGA UGCGGUCAUG GUGUCUUUC ACAGCUCUUC CCAUGAUCGC 50  
 CCGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 233:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:  
 GGGAGGACGA UGCGGGAUU CCCAGCGUU GACUGAUACA AACNUUCCCG 50  
 UGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 234:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:  
 GGGAGGACGA UGCGGCAANN NNNNNCUCUC UCCUGGCGUU CCGCAACCCG 50  
 CCCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 235:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:  
 GGGAGGACGA UGCGGAGUAU UCCAGCCUGG AUUCAUAGUC AGUGCUCUCC 50  
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 236:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:  
 GGGAGGACGA UGCGGUCCUA GCAGCGAUUC AUCCCCGUUC UCUCAGCGUU 50  
 GCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 237:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:  
 GGGAGGACGA UGCGGCCUGA AGUACAGGCU CUAACUCCA AGCGCGACCG 50  
 UCCGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 238:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 68 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:  
 GGGAGGACGA UGCGGCCCUA CCACUUUUUC CCUCUACUGU UAUCCUGUCC 50  
 CCCAGACGAC UCGCCCGA 68

(2) INFORMATION FOR SEQ ID NO: 239:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:  
 GGGAGGACGA UGCGGUGGUC UCCCUAGAUC UACAGCACUU CCAUCGCAUU 50  
 GGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 240:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 69 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:  
 GGGAGGACGA UGCGGUCAAG CUUAACAGUC UGGCAAUGGC CAUUAUGGCG 50  
 CCCCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 241:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:  
 GGGAGGACGA UGCGGCAGUC UGGAUCUCUA UUGGAAUUUA GUCCUCAACU 50  
 GUGCCCCAGA CGACUCGCC GA 72

(2) INFORMATION FOR SEQ ID NO: 242:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:  
 GGGAGGACGA UGCGGGAUUC UUUCGGCAAG UGAAAAUUAU CCUUGCUCUC 50  
 CGAGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 243:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:  
 GGGAGGACGA UGCGGGGACU UCAACUAAGU CCUCAUUUGC CUCGCUCUC 50  
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 244:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:  
 GGGAGGACGA UGCGGAACGG AGAUGUCCCC UCAAMAUUUA CCGUCUCCGU 50  
 UUGCGCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 245:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:  
 GGGAGGACGA UGCGGCGAAA UUAGCUUCU AUGACUCACG UUCCUUGCC 50  
 GCCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 246:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:  
 GGGAGGACGA UGCGGGCCCCG AUCUACUGCA UUACCGAAAC GAUUUCCCCA 50  
 CUGUGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 247:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:  
 GGGAGGACGA UGCGGNGACU GAUUUUUCCU UGNCAGUGUA AUUUCUGGC 50  
 UGCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 248:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:  
 GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUCGA CCUGUCCCC 50  
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 249:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:  
 GGGAGGACGA UGCGGCGACA CAAUAGCCUU UGAUCCCAUG AUGGCUCGCC 50  
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 250:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:  
 GGGAGGACGA UGCGGUGUAG UUUCCCUGUA UGCCAUUCUU UCCCAUGCCG 50  
 CACGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 251:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:  
 GGGAGGACGA UGCGGUCGAG UGUUCUCCUU CGGUAACUAU UMNNAUUUC 50  
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 252:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:  
 GGGAGGACGA UGCGGGUCGU AUUCAUCCU UUGUUCUGUU UCGUUGCACC 50  
 UGGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 253:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:  
 GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUCGA CGUGUUCCCC 50  
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 254:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 69 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:  
 GGGAGGACGA UGCGGUGAUC AAUCGGCGCU UUACUCUUGC GCUCACCGUG 50  
 CCCCAGACGA CUCGCCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 255:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:  
 GGGAGGACGA UGCGGCAGUC UCCCUAGGUU UCAUCUCUGC AGCAUUCGG 50  
 GGUNCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 256:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:  
 GGGAGGACGA UGCGGAUCAA AAGCACUCAU UCCCGUGCUC GCUUCAUUGG 50  
 UCCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 257:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:  
 GGGAGGACGA UGCGGAAGAU CUCCCAACUG CUGUGGCUAA UAAUUCUCUC 50  
 CGCGUCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 258:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:  
 GGGAGGACGA UGCGGUCCGU CAUAACGGCC AUAACUGCG AAUACUCCCU 50  
 GGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 259:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 73 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:  
 GGGAGGACGA UGCGGGGACA AWYAGCGGUG UCUUUCAUU UNKAUCCUCC 50  
 GACRUCCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 260:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:  
 GGGAGGACGA UGCGGUGACU AUCUGGCUUG AUCCAAUCAC CCGAGCCAC 50  
 CGCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 261:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:  
 GGGAGGACGA UGCGGGAACU AAUGGCCGUG AUUAACCAU GCAGGCUUCC 50  
 UGCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 262:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 73 base pairs



(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:  
 GGGAGGACGA UGCGGUGACA UGGAAUUUUC UACGGGCCCG AUCCUGCCAG 50  
 CCGUGUGCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 263:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 13 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:  
 GGAANYAANR CRR 13

(2) INFORMATION FOR SEQ ID NO: 264:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 9 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:  
 GGAANYTGA 9

(2) INFORMATION FOR SEQ ID NO: 265:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 76 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-NH<sub>2</sub> 2 cytosine  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> 2 uracil  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:  
 GGGAGACAAG AAUAACGCUC AAGUAGACUA AUGUGUGGAA GACAGCGGGU 50  
 GGUUCGACAG GAGGCUCACA ACAGGC 76

(2) INFORMATION FOR SEQ ID NO: 266:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-NH<sub>2</sub> 2 cytosine  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> 2 uracil  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:  
 GGUGUGUGGA AGACAGCGGG UGGUUC

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(2) INFORMATION FOR SEQ ID NO: 267:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's and C's are 2'- deoxy-2'-aminouridine  
 and 2'-deoxy-2' aminocytidine residues  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: A at positions 14 and 17 is 2'-deoxy-2'-O-  
 methyladenosine  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: G at positions 5, 6, 22, 23, 24, 26 and 27 is  
 2'-deoxy-2'-O-methylguanosine  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: T at positions 1-4 and 31-35 is 2'-  
 deoxythymidine  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:  
 TTTTGGUGUG UGGAAGACAG CGGGUGGUUC TTTT

35

(2) INFORMATION FOR SEQ ID NO: 268:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 27 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:  
 GGGAGGSGSG GUYUCYYRRY UYYYSYS

27

(2) INFORMATION FOR SEQ ID NO: 269:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 26 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA

(ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:  
 RGGRRGRAY Y RSBRYYYYY BSYBSY 26

(2) INFORMATION FOR SEQ ID NO: 270:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 21 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:  
 GGGAAGGAAY AACRRGACC C 21

(2) INFORMATION FOR SEQ ID NO: 271:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 11 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:  
 GGAAYGAYGA Y 11

(2) INFORMATION FOR SEQ ID NO: 272:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 49 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:  
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUC 49

(2) INFORMATION FOR SEQ ID NO: 273:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 47 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:  
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUA 47

(2) INFORMATION FOR SEQ ID NO: 274:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:  
GGGAGGACUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUA 45

(2) INFORMATION FOR SEQ ID NO: 275:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:  
GGGAGGACGA UGCGGUGGUC UCCCCUAAAC UUUCUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 276:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:  
GGGAGGACGA UGCGGUGGUC UCCCAUUCU AUUCUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 277:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:  
GGGAGGACGA UGCGGUGGUC UCCCAUUCU AAACUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 278:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 42 base pairs  
    (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUA CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 279:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 47 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:  
GAGGACGAUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUAUC 47

(2) INFORMATION FOR SEQ ID NO: 280:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 42 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUUU CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 281:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 41 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 282:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 44 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:  
GGAGGACGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 283:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:  
GGAGGACGAU GCGGUGGUCU CCAAUUCUAU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 284:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:  
GAGGACGAUG CGGUGGUCUC CCAAUUCUAU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 285:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 41 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:  
GAGGACGAUG CGGUGGUCUC AAUUCUAUUC UCCAUCGU AU C 41

(2) INFORMATION FOR SEQ ID NO: 286:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:  
GGGAGGCGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 287:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 44 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 288:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 43 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 289:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 42 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 290:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 44 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 291:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 43 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:  
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 292:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 41 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:  
 GGGGACGAUG CGUGGCCCC AAUUCUAUUC UCCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 293:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 39 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:  
 GGGACGAUGC GGUGGCCCAA UUCUAUUCUC CAUCGUAUC 39

(2) INFORMATION FOR SEQ ID NO: 294:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:  
 GACGAUGC GG UGGCCCAAU CUAUUCUCCA UCGUAUC 37

(2) INFORMATION FOR SEQ ID NO: 295:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 38 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:



(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:  
GGACGAUGCG GUGGCCCAAU UCUAUUCUCC AUCGUAUC 38

(2) INFORMATION FOR SEQ ID NO: 296:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 34 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:  
GAUGCGGUGG CCCAAUUCUA UUCUCCAUCG UAUC 34

(2) INFORMATION FOR SEQ ID NO: 297:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:  
GAUGCGGUGG UCUCCCAAUU CUAUUCUCCA UCGUAUC 37

(2) INFORMATION FOR SEQ ID NO: 298:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 32 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:  
GGUGGUCUCC CAAUUCUAUU CUCCAUCGUA UC 32

(2) INFORMATION FOR SEQ ID NO: 299:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 12 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:  
GGGAGGACGA UG 12

(2) INFORMATION FOR SEQ ID NO: 300:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 42 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:
 

GGGAGGACGA UGCGGUGGUC UCCCAAUUCU CUCCAUCGUA UC
42

(2) INFORMATION FOR SEQ ID NO: 301:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 41 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:
 

GGGAGGACGA UGCGGUGUCU CCAAUUCUU CUCAUCGUAU C
41

(2) INFORMATION FOR SEQ ID NO: 302:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 41 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:
 

GGGAGGACGA UGCGGGGUCU CCAAUUCUU CUCCUCGUAU C
41

(2) INFORMATION FOR SEQ ID NO: 303:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 39 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:
 

GGGAGGACGA UGCGGGUCUC CCAAUUCUUC UCUCGUauc
39

(2) INFORMATION FOR SEQ ID NO: 304:

- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 43 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:  
GGGAGUACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC